

WHAT IS CLAIMED IS:

1. A structure for quickly installing and removing optical disk drive, comprising:

5 a main frame, disposed in a casing of an electronic device, and one end of said main frame having an opening, a transversal board disposed at the bottom of said opening proximate the front edge of said opening; a sliding channel disposed on said transversal board;

an embedding member, disposed on said sliding channel of said transversal board, and both edges of said embedding member being extended outward and having a hook thereon, one end of each said hooks being extended upward to cover said transversal board, such that said embedding member being capable of sliding in said sliding channel; said embedding member having a downwardly extended handle at an end away from the middle of said opening and a first embedding latch and a second embedding latch
10 symmetrically disposed on the other end, wherein said first embedding latch is in a cylinder shape and said second embedding latch is of a trapezoid cross section; said main frame respectively having a first transversal sliding channel and a second transversal sliding channel at the positions corresponding to said first and second embedding latches, and said first and second embedding latches
15 respectively disposed in said first and second transversal sliding channels and partially exposed from said transversal sliding channels, so that when said handle being pulled, said first and second embedding latches can slide in said first and second transversal sliding channels respectively; a reciprocating spring disposed on said embedding member, having one end coupled to said embedding member
20 and another end coupled to said main frame, so that after said embedding member
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is pulled, said embedding member will return to its original position due to the resilience of said spring; and

an optical disk drive frame, having a vertical wall on one side and a side bracket on the other side, and said optical disk drive frame at the ends
5 corresponding to said first and second embedding latches are symmetrically stamped with a transversal first side plate and a L-shaped second side plate;

thereby when said optical disk drive being mounted onto said optical disk drive frame and placed into said electronic device through said opening of said main frame, said optical disk drive frame being fixed onto said
10 electronic device while said second embedding latch being embedded into said L-shaped second side plate, or said optical disk drive frame being detached from said electronic device while said first embedding latch being pressed against said transversal first side plate.

2. The structure for quickly installing and removing an optical disk drive of
15 claim 1 further comprises a sliding channel, being disposed on said optical disk drive frame adjacent to said side bracket, and said sliding channel has a symmetrical open groove; a latch member, being disposed on said open groove and capable of moving back and forth in said open groove along the axial direction of said open groove, and comprising a vertical inverted
20 L-shaped limit section disposed on one edge corresponding to said side bracket, a push button disposed on the bottom of said latch member, and a plurality of upwardly extended fixed legs disposed on the edge of said push button and passing through said open groove with its end being coupled to said push button; thereby when an optical disk drive is installed
25 onto said optical disk drive frame, said push button is pushed to drive the

limit section of said latch member to press against an edge of said optical disk drive and fix said optical disk drive onto said optical disk drive frame.

3. The structure for quickly installing and removing an optical disk drive of claim 2, wherein the end of each said fixed leg has an embedding latch passing into said open groove, and the end of said embedding latch latches said hole on said latch member, enabling said latch member and said push button to be coupled together.
4. The structure for quickly installing and removing an optical disk drive of claim 2 further comprising a symmetrical resilient bracket respectively disposed on the wall of said optical disk drive frame and the front end of said side bracket, such that when said optical disk drive being mounted onto said optical disk drive frame, said optical disk drive being fixed onto said optical disk drive frame by the resilience of said resilient bracket.
5. The structure for quickly installing and removing an optical disk drive of claim 2, wherein said optical disk drive frame comprises a ground bracket, so that when said optical disk drive is mounted onto said optical disk drive, said ground bracket presses on the surface of said optical disk drive to define a ground circuit and prevent electromagnetic interference.
6. The structure for quickly installing and removing an optical disk drive of claim 1, wherein said electronic device is a computer.